

January 1, 2010



Standards by Division

DIVISION 200 EARTHWORK, LANDSCAPING, and EROSION CONTROL

STD. NO. TITLE

EARTHWORK

202001-01 Earth Median Ditch Check

EROSION CONTROL

280001-05 Temporary Erosion Control Systems

285001-02 Fabric Formed Concrete Revetment Mats

January 1, 2010



Standards by Division

DIVISION 300 SUBGRADES, SUBBASES, and BASE COURSES

STD. NO. TITLE

BASE COURSE

353001-04 PCC Base Course with HMA Binder and Surface Courses



Standards by Division

DIVISION 400 SURFACE COURSES, PAVEMENTS, REHABILITATION, AND SHOULDERS

STD. NO. TITLE**BITUMINOUS SURFACES AND HOT-MIX ASPHALT PAVEMENTS**

406001-05	Entrance Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)
406101-04	Exit Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)
406201-01	Mailbox Turnout

PORTLAND CEMENT CONCRETE PAVEMENTS AND SIDEWALKS

420001-07	Pavement Joints
420101-04	24' (7.2 m) Jointed PCC Pavement
420106-04	36' (10.8 m) Jointed PCC Pavement
420111-02	PCC Pavement Roundouts
420201-07	Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)
420206-08	Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)
420301-04	Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)
420306-06	Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)
420401-08	Bridge Approach Pavement Connector
420501-04	PCC Pavement and PCC Base Course Adjacent to Railroad Grade Crossing
420601-05	24' (7.2 m) PCC Pavement
420701-02	Pavement Fabric
421001-02	Bar Reinforcement for CRC Pavement
421101-07	24' (7.2 m) CRC Pavement (With Wide Flange Beam Terminal Joint)
421106-07	36' (10.8 m) CRC Pavement (With Wide Flange Beam Terminal Joint)
421201-06	24' (7.2 m) CRC Pavement (With Lug System)
421206-06	36' (10.8 m) CRC Pavement (With Lug System)
424001-05	Curb Ramps for Sidewalks

PAVEMENT REHABILITATION

442001-04	Class A Patches
442101-07	Class B Patches
442201-03	Class C and D Patches

SHOULDERS

482001-02	HMA Shoulder Adjacent to Flexible Pavement
482006-03	HMA Shoulder Adjacent to Rigid Pavement
482011-03	HMA Shoulder Strips/Shoulders With Resurfacing or Widening and Resurfacing Projects
483001-04	PCC Shoulder



Standards by Division

DIVISION 500 BRIDGES and CULVERTS

STD. NO.	TITLE
BRIDGES	
509001-01	Tubular Thrie Beam Retrofit Rail for Bridges
515001-03	Name Plate for Bridges
CULVERTS	
542001-02	Reinforced Concrete End Sections With Parallel Wingwalls for Pipe Culverts 300 mm (12") thru 1200 mm (48") Diameter at Right Angles With Roadway
542101-02	Reinforced Concrete End Sections for Pipe Culverts 375 mm (15") thru 900 mm (36") Diameter at Right Angles With Roadway
542106-02	Reinforced Concrete End Sections for Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter at Right Angles With Roadway
542111-02	Reinforced Concrete End Sections for Pipe Culverts, 1650 mm (66") thru 2100 mm (84") Diameter at Right Angles With Roadway
542116-02	Reinforced Concrete End Sections for Multiple (2 & 3) Pipe Culverts, 375 mm (15") thru 900 mm (36") at Right Angles With Roadway
542121-02	Reinforced Concrete End Sections for Multiple (2 & 3) Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter at Right Angles With Roadway
542201-02	Reinforced Concrete End Sections for Pipe Culverts, 375 mm (15") thru 900 mm (36") Diameter Skewed With Roadway
542206-01	Reinforced Concrete End Sections for Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter Skewed With Roadway
542301-02	Precast Reinforced Concrete Flared End Section
542306-02	Precast Reinforced Concrete Elliptical Flared End Section
542311-01	Grating for Concrete Flared End Section (For 600 mm (24") thru 1300 mm (54") Pipe)
542401-01	Metal End Section for Pipe Culverts
542406-01	Metal End Section for Pipe Arches
542501-02	Inlet Box Type 600 (24) A
542506-02	Inlet Box Type 600 (24) B
542511-02	Inlet Box Type 600 (24) C
542516-02	Inlet Box Type 600 (24) D
542521-02	Inlet Box Type 600 (24) E
542526-02	Inlet Box Type F, 600 mm (24")
542531-03	Inlet Box Type G, 600 mm (24")
542536-03	Inlet Box Type 900 (36) A
542541-02	Inlet Box Type 1200 (48) A
542546-01	Flush Inlet Box for Median
542601-02	Reinforced Concrete Pipe Elbow
542606-01	Reinforced Concrete Pipe Tee



Standards by Division

DIVISION 600 INCIDENTAL CONSTRUCTION

STD. NO.	TITLE
DRAINAGE RELATED ITEMS	
601001-03	Sub-Surface Drains
601101-01	Concrete Headwall for Pipe Drain
602001-01	Catch Basin, Type A
602006-02	Catch Basin, Type B
602011-01	Catch Basin, Type C
602016-01	Catch Basin, Type D
602101-02	Drainage Structures, Types 1, 2 & 3
602106-01	Drainage Structures, Types 4, 5 & 6
602301-02	Inlet, Type A
602306-02	Inlet, Type B
602401-02	Manhole, Type A
602406-03	Manhole, Type A, 1.8 m (6') Diameter
602411-01	Manhole, Type A, 2.1 m (7') Diameter
602416-01	Manhole, Type A, 2.4 m (8') Diameter
602421-01	Manhole, Type A, 2.7 m (9') Diameter
602501-01	Valve Vault, Type A
602601-02	Precast Reinforced Concrete Flat Slab Top
602701-02	Manhole Steps
604001-03	Frame and Lids, Type 1
604006-04	Frame and Grate, Type 3
604011-04	Frame and Grate, Type 3V
604016-02	Frame and Grate, Type 4
604021-02	Base, Frame and Lids, Type 5
604026-02	Frame and Grate, Type 6
604031-02	Grate, Type 7
604036-02	Grate, Type 8
604041-02	Frame and Grate, Type 9
604046-02	Frame and Grate, Type 10
604051-03	Frame and Grate, Type 11
604056-03	Frame and Grate, Type 11V
604061-02	Frame and Grate, Type 12
604066-02	Frame and Lid, Type 15
604071-04	Frame and Grate, Type 20
604076-04	Frame and Grate, Type 21
604081-04	Frames and Grates, Type 22
604086-02	Frame and Grate, Type 23
604091-02	Frame and Grate, Type 24
604101-01	Median Inlet for 600 mm (24") Reinforced Concrete Pipe

604106-01	Median Inlet for 900 mm (36") Reinforced Concrete Pipe
606001-04	Concrete Curb Type B and Combination Concrete Curb and Gutter
606006-02	Outlet for Concrete Curb and Gutter, Type B-15.60 (B-6.24)
606101-04	Type A Gutter (Inlet, Outlet, and Entrance)
606106-04	Outlet, Type I for Type A Gutter
606111-03	Outlets, Type 2 for Type A Gutter
606201-02	Type B Gutter (Inlet, Outlet, and Entrance)
606206-03	Outlet, Type 1 for Type B Gutter
606211-03	Outlets, Type 2 for Type B Gutter
606301-04	PC Concrete Islands And Medians
606306-03	Corrugated PC Concrete Medians
606401-01	Paved Ditch
609001-05	Bridge Approach Shoulder Pavement and Drain
609006-05	Bridge Approach Pavement (Drain Detail)
610001-05	Shoulder Inlet With Curb

SAFETY RELATED ITEMS

630001-08	Steel Plate Beam Guardrail
630101-08	Guardrail Mounted on Existing Culverts
630201-06	PCC/HMA Stabilization at Steel Plate Beam Guardrail
630301-05	Shoulder Widening for Type 1 (Special) Guardrail Terminals
631006-07	Traffic Barrier Terminal, Type 1B
631011-06	Traffic Barrier Terminal, Type 2
631026-05	Traffic Barrier Terminal, Type 5
631031-08	Traffic Barrier Terminal, Type 6
631032-05	Traffic Barrier Terminal, Type 6A
631033-03	Traffic Barrier Terminal, Type 6B
631036-05	Traffic Barrier Terminal, Type 8
631041-02	Traffic Barrier Terminal, Type 9
631046-04	Traffic Barrier Terminal, Type 10
631051-02	Traffic Barrier Terminal, Type 11
631056-02	Traffic Barrier Terminal, Type 12
635001-01	Delineators
635006-03	Reflector and Terminal Marker Placement
635011-02	Reflector Marker and Mounting Details
636001-02	Cable Road Guard Single Strand
637001-04	Concrete Barrier 815 mm (32 in.) Height
637006-02	Concrete Barrier 1065 mm (42 in.) Height
638001-02	Glare Screen Blades
638101-02	Concrete Glare Screen
639001-02	Sight Screen Precast Prestressed Concrete Panel Wall
640001-01	Sight Screen Chain Link Fence
641001-01	Sight Screen Cedar Stockade Fence Type S
641006-01	Sight Screen Wood Plank Fence Type P
642001-01	Shoulder Rumble Strips

OTHER ITEMS

664001-02	Chain Link Fence
665001-02	Woven Wire Fence
666001-01	Right-of-Way Markers
667001-01	Drainage Markers

667101-01	Permanent Survey Markers
668001-01	U.S. Geological Survey and National Geodetic Survey Benchmarks, Resetting Method



Standards by Division

**DIVISION 700 WORK ZONE TRAFFIC CONTROL AND PROTECTION,
SIGNING, AND PAVEMENT MARKING**

STD. NO.	TITLE
WORK ZONE TRAFFIC CONTROL AND PROTECTION	
701001-02	Off-Road Operations, 2L, 2W, More Than 4.5 m (15') Away
701006-03	Off-Road Operations, 2L, 2W, 4.5 m (15') to 600 mm (24") From Pavement Edge
701011-02	Off-Road Moving Operations, 2L, 2W, Day Only
701101-02	Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24") From Pavement Edge
701106-02	Off-Road Operations, Multilane, More Than 4.5 m (15') Away
701201-03	Lane Closure, 2L, 2W, Day Only, for Speeds \geq 45 MPH
701206-02	Lane Closure, 2L, 2W, Night Only, for Speeds \geq 45 MPH
701301-03	Lane Closure, 2L, 2W, Short Time Operations
701306-02	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, for Speeds \geq 45 MPH
701311-03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701316-04	Lane Closure, 2L, 2W, Bridge Repair, for Speeds \geq 45 MPH
701321-10	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701326-03	Lane Closure, 2L, 2W, Pavement Widening, for Speeds \geq 45 MPH
701331-03	Lane Closure, 2L, 2W, With Run-Around, for Speeds \geq 45 MPH
701336-05	Lane Closure, 2L, 2W, Work Areas in Series, for Speeds \geq 45 MPH
701400-04	Approach to Lane Closure, Freeway/Expressway
701401-05	Lane Closure, Freeway/Expressway
701402-07	Lane Closure, Freeway/Expressway, with Barrier
701406-05	Lane Closure, Freeway/Expressway, Day Operations Only
701411-06	Lane Closure, Multilane, at Entrance or Exit Ramp, for Speeds \geq 45 MPH
701416-06	Lane Closure, Freeway/Expressway, with Crossover and Barrier
701421-02	Lane Closure, Multilane, Day Operations Only, for Speeds \geq 45 MPH to 55 MPH
701422-02	Lane Closure, Multilane, for Speeds \geq 45 MPH to 55 MPH
701423-03	Lane Closure, Multilane, with Barrier, for Speeds \geq 45 MPH to 55 MPH
701426-03	Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds \geq 45 MPH
701431-05	Lane Closure, Multilane, Undivided with Crossover, for Speeds \geq 45 MPH to 55 MPH
701446-01	Two Lane Closure, Freeway/Expressway
701451-01	Ramp Closure Freeway/Expressway
701456	Partial Exit Ramp Closure Freeway/Expressway
701501-05	Urban Lane Closure, 2L, 2W, Undivided
701502-03	Urban Lane Closure, 2L, 2W, with Bidirectional Left Turn Lane
701601-06	Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
701602-04	Urban Lane Closure, Multilane, 2W with Bidirectional Left Turn Lane
701606-06	Urban Lane Closure, Multilane, 2W with Mountable Median
701701-06	Urban Lane Closure, Multilane Intersection
701801-04	Lane Closure, Multilane 1W or 2W Crosswalk or Sidewalk Closure
701901-01	Traffic Control Devices

704001-06 Temporary Concrete Barrier

SIGNING

720001-01 Sign Panel Mounting Details

720006-02 Sign Panel Erection Details

720011-01 Metal Posts for Signs, Markers and Delineators

720016-02 Mast Arm Mounted Street Name Signs

720021-02 Sign Panels, Extruded Aluminum Type

728001-01 Telescoping Steel Sign Support

729001-01 Applications of Types A and B Metal Posts (For Signs & Markers)

731001-01 Base for Telescoping Steel Sign Support

PAVEMENT MARKING

780001-02 Typical Pavement Markings

781001-03 Typical Applications Raised Reflective Pavement Markers



Standards by Division

DIVISION 800 ELECTRICAL

STD. NO. TITLE

GENERAL ELECTRICAL REQUIREMENTS

805001-01 Electrical Service Installation Details

WIREWAY AND CONDUIT SYSTEMS

814001-02 Handholes

814006-02 Double Handholes

LIGHTING – CONTROLLERS

825001 Lighting Controller, 240V, Pole Mounted

825006 Lighting Controller, 480V, Pole Mounted

825011 Lighting Controller, 240V, Pedestal Mounted

825016 Lighting Controller, 480V, Pedestal Mounted

825021 Lighting Controller, 240V, Base Mounted

825026 Lighting Controller, 480V, Base Mounted

LIGHTING – FOUNDATIONS

836001 Light Pole Foundation

837001 Light Tower Foundation

TRAFFIC SIGNALS - CONTROLLERS AND EQUIPMENT

857001-01 Standard Phase Designation Diagrams and Phase Sequences

857006-01 Supervised Railroad Interconnect Circuit

862001-01 Uninterruptable Power Supply (UPS)

TRAFFIC SIGNALS - WIRE AND CABLE

873001-02 Traffic Signal Grounding & Bonding

TRAFFIC SIGNALS - POSTS AND FOUNDATIONS

876001-01 Pedestrian Push Button Post

877001-04 Steel Mast Arm Assembly and Pole 16' Through 55'

877002-01 Steel Mast Arm Assembly and Pole 56' Through 75'

877006-03 Steel Mast Arm Assembly and Pole with Dual Mast Arms

877011-04 Steel Combination Mast Arm Assembly and Pole 16' Through 55'

877012-01 Steel Combination Mast Arm Assembly and Pole 56' Through 75'

878001-08 Concrete Foundation Details

TRAFFIC SIGNALS - SIGNAL HEADS

880001-01 Span Wire Mounted Signals and Flashing Beacon Installation

880006-1 Traffic Signal Mounting Details

TRAFFIC SIGNALS - DETECTION

886001-01 Detector Loop Installations

886006-01 Typical Layout for Detection Loops

January 1, 2010



Standards by Division

DIVISION 000 MISCELLANEOUS TABLES

STD. NO.	TITLE
000001-05	Standard Symbols, Abbreviations and Patterns
001001-02	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot

January 1, 2010



Standards by Division

DIVISION BLR LOCAL ROADS

STD. NO.	TITLE
BLR 10-6	PCC Pavement Special
BLR 14-10	Portland Cement Concrete Pavement (Nonreinforced)
BLR 17-4	Traffic Control Devices - Day Labor Construction
BLR 18-5	Traffic Control Devices - Day Labor Maintenance
BLR 20-6	Traffic Barrier Terminal - Type 5R
BLR 21-8	Typical Application of Traffic Control Devices for Construction on Rural Local Highways
BLR 22-6	Typ. Appl. of T.C.D. for Rural Loc. Hwys. (2-Lane 2 Way Rural Traff.) (Rd. Closed to Thru Traff.)
BLR 23-3	Traffic Barrier Terminal Type 1
BLR 24-2	Mailbox Turnout for Local Roads
BLR 25-1	Type 1A Barricade for Non-NHS Routes
BLR 26-2	Steel Plate Beam Guardrail 700 mm (27 ½") Height
BLR 27-1	Traffic Barrier Terminal Type 5A